


**Water-dilutable binders, aqueous paints containing these binders, and process for priming or painting plastics materials with a single coat of paint**

Patent number: JP2000500507T  
Publication date: 2000-01-18  
Inventor:  
Applicant:  
Classification:  
- international: C08F255/00; C08J7/04; C09D151/06  
- european: C09D151/06  
Application number: JP19960515489T 19961010  
Priority number(s): DE19951038147 19951013; WO1996EP04397 19961010

## Also published as:

 WO9714728 (A1)  
EP0868449 (A1)  
US6191210 (B1)  
DE19538147 (A1)  
EP0868449 (B1)

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Abstract not available for JP2000500507T

Abstract of corresponding document: **US6191210**

The invention relates to water-dilutable binders which can be prepared by subjecting(A) from 20 to 90% by weight of a mixture of(a1) from 3 to 50% by weight of acrylic acid, methacrylic acid or of a mixture of acrylic acid and methacrylic acid, and(a2) from 50 to 97% by weight of an ethylenically unsaturated monomer or of a mixture of ethylenically unsaturated monomers to free-radical polymerization in the presence of(B) from 9.9 to 79.9% by weight of a halogen-free copolymer composed of(b1) from 1 to 99, preferably from 50 to 90% by weight, of propylene,(b2) from 1 to 99, preferably from 10 to 50% by weight, of at least one olefin which is copolymerizable with (b1) and contains per molecule from five to twenty, preferably from six to eight, carbon atoms, with the exception of isoprene, and(b3) from 0 to 50, preferably from 0 to 25% by weight, of ethylene and/or butylene, or of a mixture of such copolymers, and(C) from 0.1 to 10% by weight of a free-radical initiator or of a mixture of free-radical initiators, and, after neutralization of at least 20% of the carboxyl groups which are present in the resulting polymerization product, dispersing the polymerization product in water, the sum of the percentages by weight of components (A), (B) and (C) and of (a1) and (a2) being in each case always 100% by weight, and the composition of the mixture of (a1) and (a2) being selected such that polymerization of the mixture of (a1) and (a2) alone gives a polymer which has a glass transition temperature of from 0 to 150 DEG C., and contains from 0.04 to 1.0 milliequivalent of one or more of the following functional groups: -COOH, -OH, -NR3, -CN, -CONH2, -CO-, -NHCONH-, -OCONH-, -OP3H, -OSO3H, -R-O-R-, where R is an organic radical.

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